

# NEEMIIT

revolutionize technology



# CLOUD COMPUTING

## NEEMIIT INTERNSHIP PROJECT

### TEAM-1

PROJECT NAMES : 1. HOTEL  
MANAGEMENT

2. THE TERM

POWER

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# THE TERM POWER

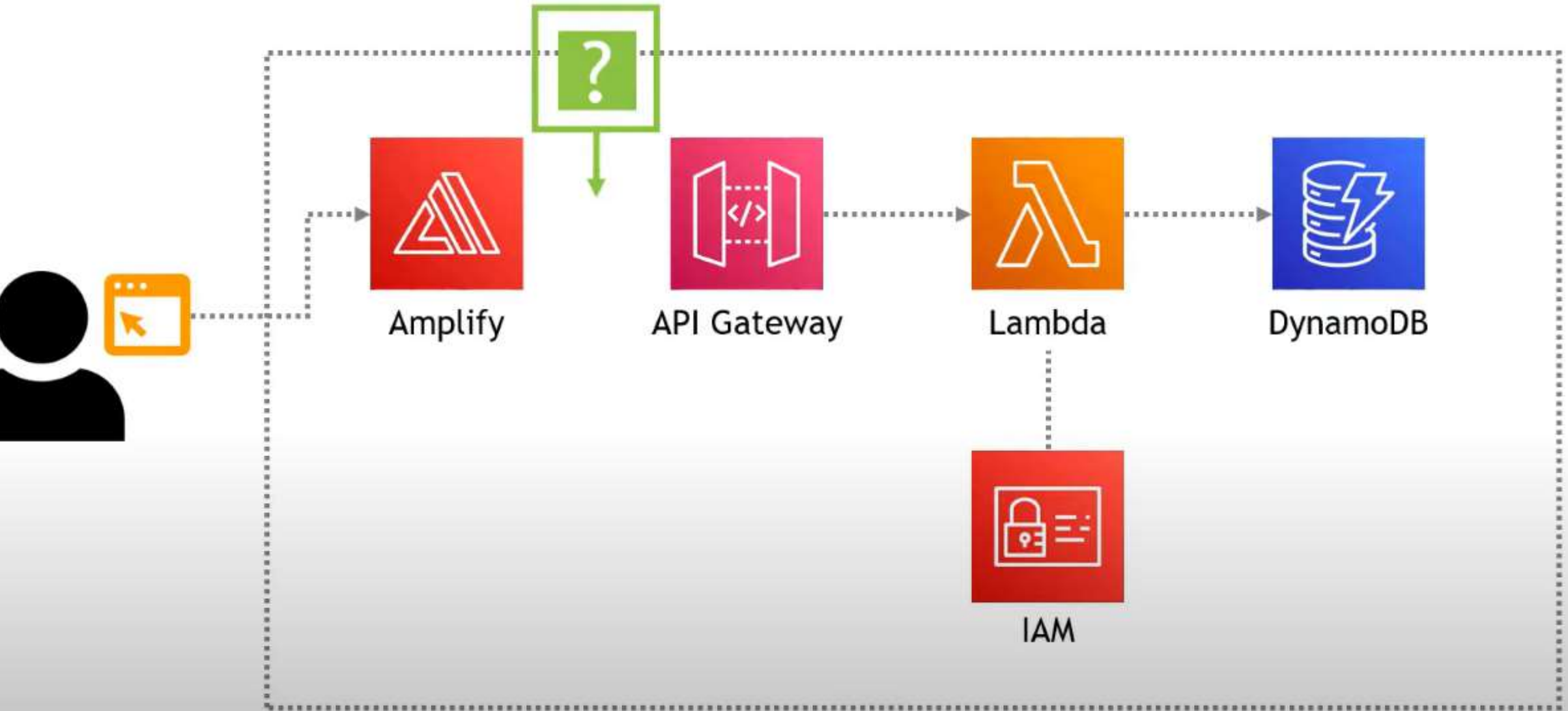
The Term Power it means the power of math

To Build an End-to-End AWS Web Application

AWS Services

- 1.AWS Amplify
- 2.AWS Lambda
- 3.Amazon API Gateway
- 4.Amazon DynamoDB
- 5.AWS IAM

# The Current Architecture

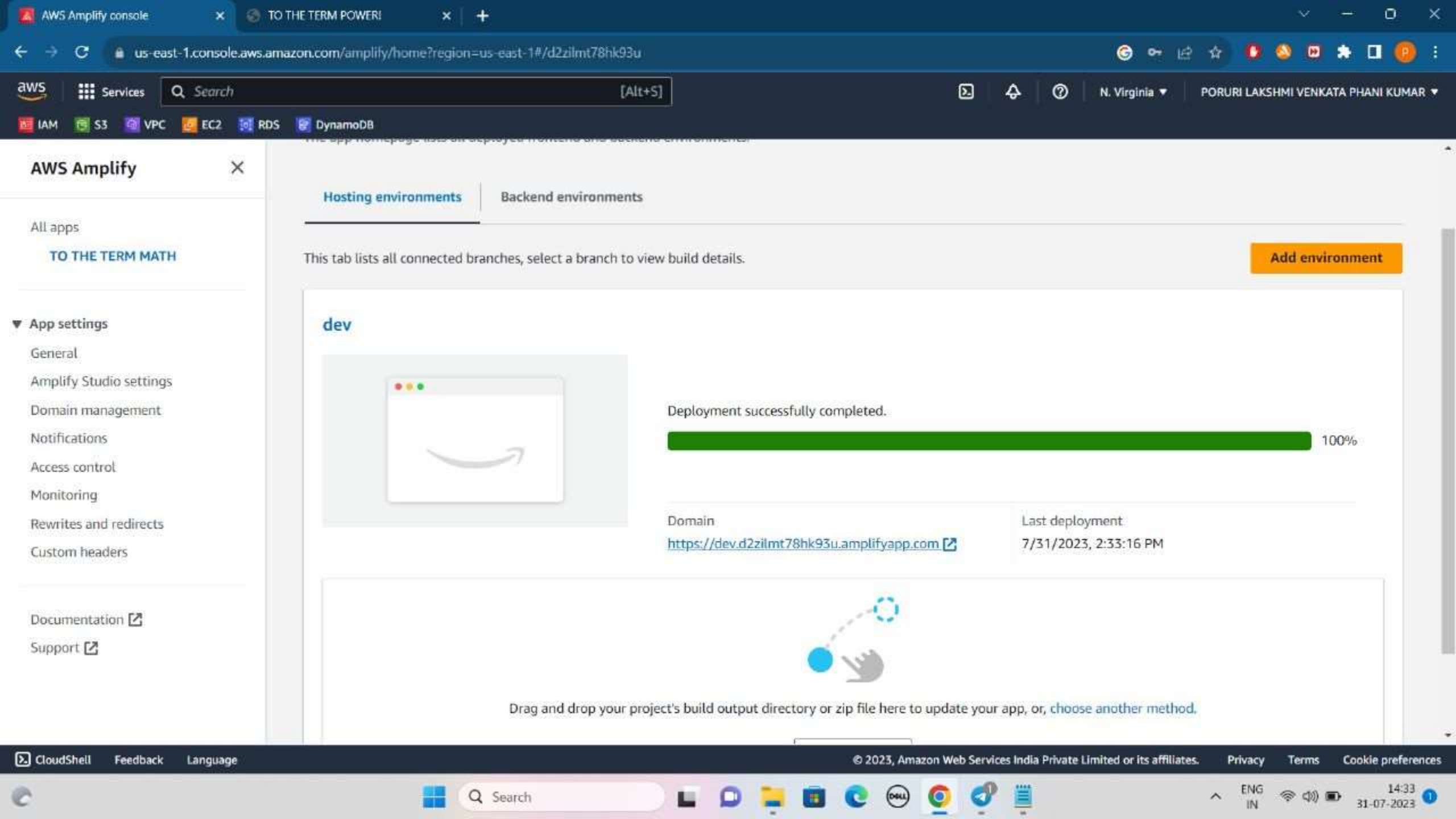


# AWS AMPLIFY



**Used to build and host website**

**You can use Amplify to connect your frontend application to various backend resources through APIs.**



# AWS Amplify

All apps  
[TO THE TERM MATH](#)

## App settings

- General
- Amplify Studio settings
- Domain management
- Notifications
- Access control
- Monitoring
- Rewrites and redirects
- Custom headers

[Documentation](#)  
[Support](#)

Hosting environments Backend environments

This tab lists all connected branches, select a branch to view build details.

Add environment

dev



Deployment successfully completed.



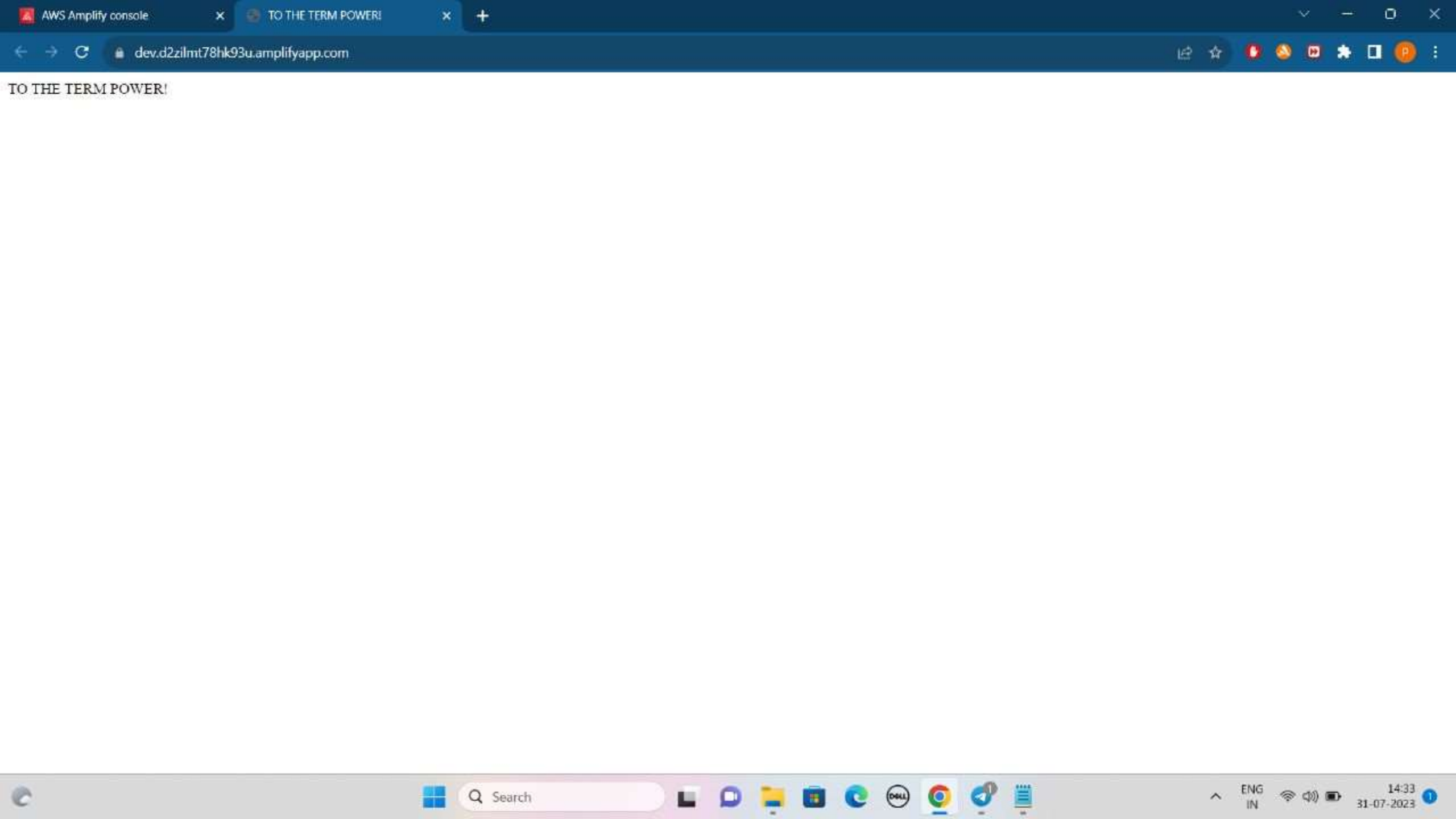
Domain  
<https://dev.d2zilmt78hk93u.amplifyapp.com>

Last deployment  
7/31/2023, 2:33:16 PM



Drag and drop your project's build output directory or zip file here to update your app, or, [choose another method](#).





# AWS LAMBDA



**Code that runs upon some triggers**

**It allows you to run code without the need to provision or manage servers.**



The test event TheTermPowerEvent was successfully saved.

## Code source Info

Upload from

File Edit Find View Go Tools Window

Test

Deploy

Go to Anything (Ctrl-P)

lambda\_function x

Environment Var x

Execution results x

+

TheTermPowerFunc  
lambda\_function.py

```
1 # Import the JSON utility package
2 import json
3 # import the Python math library
4 import math
5
6 # define the handler function that the Lambda service will use as an entry point
7 def lambda_handler(event, context):
8
9     # extract the two numbers from the Lambda service's event object
10     mathResult = math.pow(int(event['base']), int(event['exponent']))
11
12     # return a properly formatted JSON object
13     return {
14         'statusCode': 200,
15         'body': json.dumps('Your result is ' + str(mathResult))
16     }
```

Successfully updated the function TheTermPowerFunction.

Code Test Monitor Configuration Aliases Versions

Code source Info Upload from

File Edit Find View Go Tools Window Test Deploy

Go to Anything (Ctrl-P) lambda\_function x Execution result: x

Environment TheTermPowerFunc lambda\_function.py

Execution results Status: Succeeded Max memory used: 70 MB Time: 234.84 ms

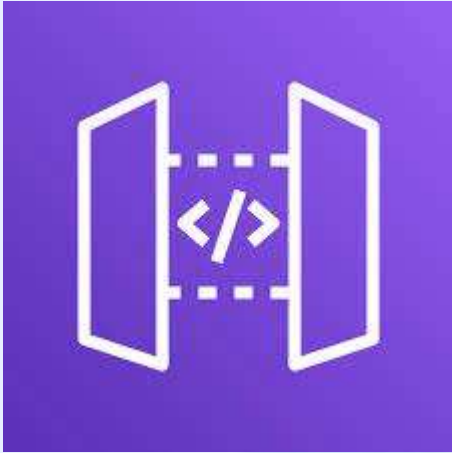
**Test Event Name**  
TheTermPowerEvent

**Response**  
{  
  "statusCode": 200,  
  "body": "\\\"Your result is 125.0\\\""  
}

**Function Logs**  
START RequestId: 603e470a-4dbb-49d8-a120-af38c2ab5605 Version: \$LATEST  
END RequestId: 603e470a-4dbb-49d8-a120-af38c2ab5605  
REPORT RequestId: 603e470a-4dbb-49d8-a120-af38c2ab5605 Duration: 234.84 ms Billed Duration: 235 ms Memory Size: 128 MB Max Memory Used: 70 MB Init Duration: 363.42 ms

**Request ID**  
603e470a-4dbb-49d8-a120-af38c2ab5605

# AMAZON API GATEWAY



**API Gateway" refers to Amazon API Gateway**

**API Gateway enables you to create RESTful APIs, WebSocket APIs, or HTTP APIs**

```
Execution log for request 87f74ae7-d69b-4ff1-bf2e-1e64399424de
Mon Jul 31 09:47:44 UTC 2023 : Starting execution for request: 87f74ae7-d69b-4ff1-bf2e-1e64399424de
Mon Jul 31 09:47:44 UTC 2023 : HTTP Method: POST, Resource Path: /
Mon Jul 31 09:47:44 UTC 2023 : Method request path: {}
Mon Jul 31 09:47:44 UTC 2023 : Method request query string: {}
Mon Jul 31 09:47:44 UTC 2023 : Method request headers: {}
Mon Jul 31 09:47:44 UTC 2023 : Method request body before transformations: {}
```

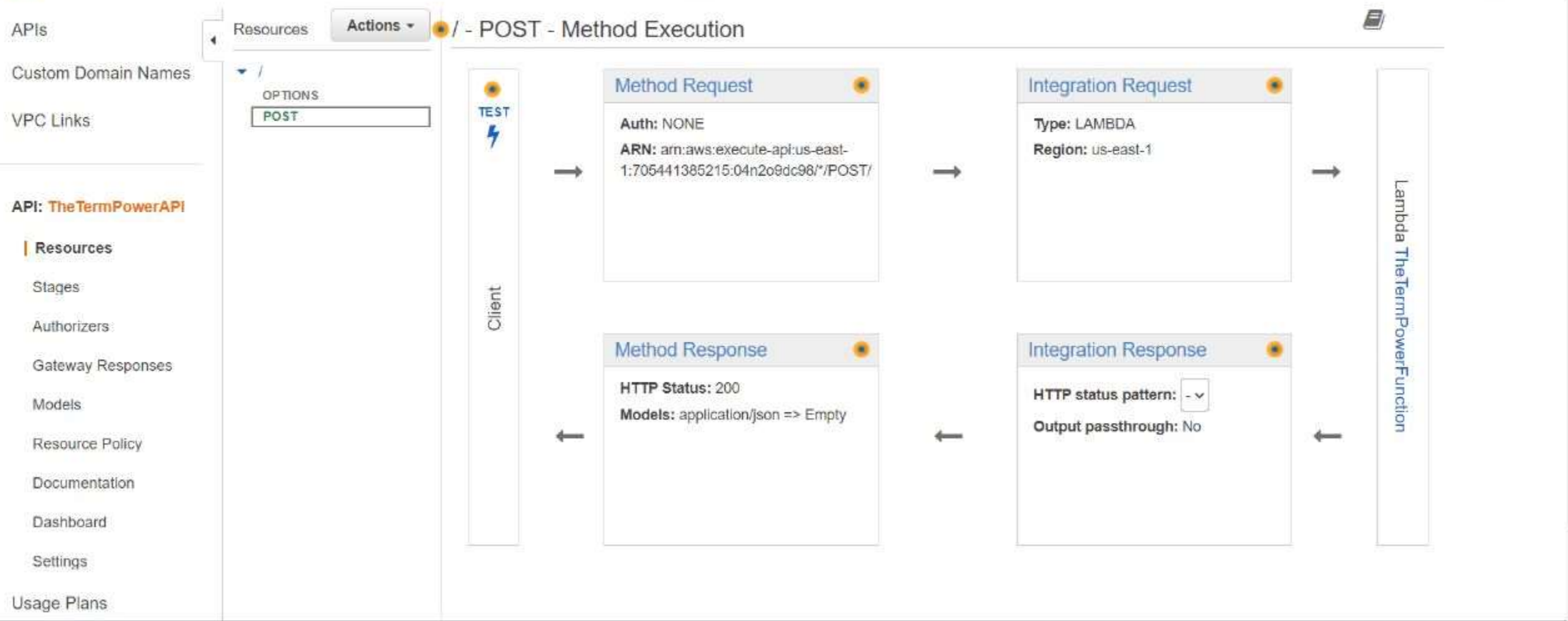


# AMAZON DYNAMODB



**Amazon DynamoDB is a fully managed NoSQL database service provided by AWS**

**It offers developers a scalable and high-performance database solution without the complexity of managing traditional databases.**



## DynamoDB

Dashboard

## Tables

Update settings

Explore items

PartiQL editor

## Backups

### Exports to S3

Imports from S3

Reserved capacity

## Settings

▼ DAX

## Clusters

### Subnet groups

### Parameter groups

## Events

✔ The TheTermPowerDatabase table was created successfully.

DynamoDB > Tables

Tables (2) [Info](#)

Find tables by table name

Any tag key	
-------------	--

Any tag value

<input type="checkbox"/>	Name	Status	Partition key	Sort key	Indexes	Deletion protection	Read capacity mode	Write capacity mode
<input type="checkbox"/>	PowerOfMathDatabase2	Active	ID (S)	-	0	Off	Provisioned with auto scaling (1)	Provisioned with auto scaling (1)
<input type="checkbox"/>	TheTermPowerDatabase	Active	ID (S)	-	0	Off	Provisioned with auto scaling (5)	Provisioned with auto scaling (5)





# AWS IAM



**It means identify & access  
managment in AWS**

**set permissions on the execution  
role for lambda**

## Identity and Access Management (IAM)

Q Search IAM

Dashboard

▼ Access management

### User groups

Users

## Roles

## Policies

## Identity providers

Account settings

## ▼ Access reports

Access analyzer

## Archive rules

## Analizers

## Settings

### Credential report

33 minutes ago

1 hour

## Permissions

### Trust relationships

## Tags

Access Advisor

### Revoke sessions

Permissions policies (2) [Info](#)

You can attach up to 10 managed policies.



### Simulate




Remove

Add permissions ▼

 Filter policies by property or policy name and press enter.

< 1 >



Policy name 	Type	Description
 <a href="#">AWSLambdaBasicExecutionRole-b33e12b4-5b55-4331-8fca-65024b2ce...</a>	Customer managed	
 <a href="#">TheTermPowerDynamoPolicy</a>	Customer inline	

Permissions boundary - (not set) [Info](#)

Set a permissions boundary to control the maximum permissions this role can have. This is not a common setting but can be used to delegate permission management to others.

### Set permissions boundary

# THE TERM POWER!

Base number:

...to the power of  **CALCULATE**

dev.d3neh6obdwldwv.amplifyapp.com says  
"Your result is 8.0"

OK

# FINAL RESULT



A decorative graphic on the left side of the slide. It consists of a series of overlapping diamond shapes outlined in black. The diamonds are filled with different images: some show a city skyline, others show a blue sky with white clouds, and one shows a close-up of a blue, textured surface. The background of the slide is dark with a faint, repeating pattern of the same diamond shapes.

# THANK YOU **NEEMIIT**

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